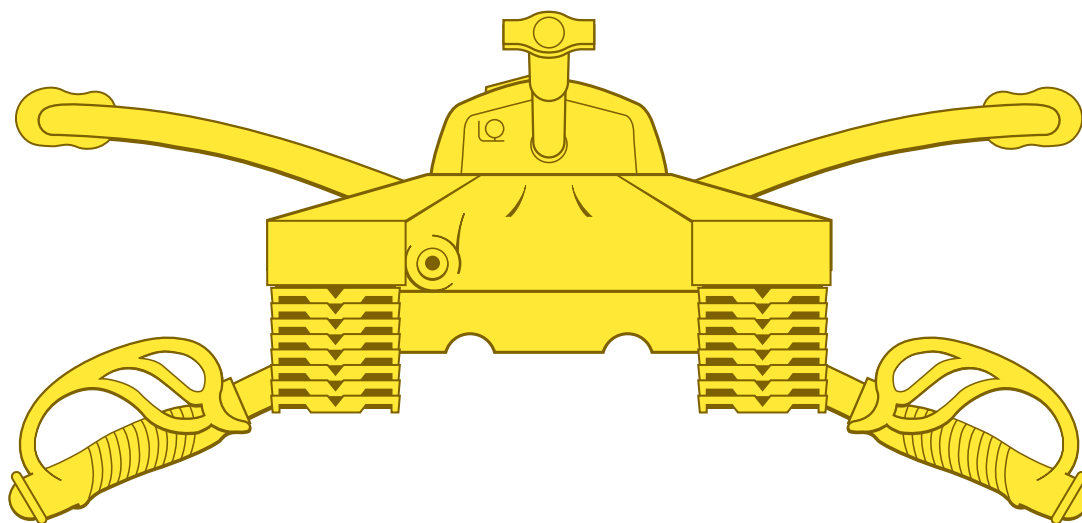


# ***ARMOR***

***17***  
***SERIES***

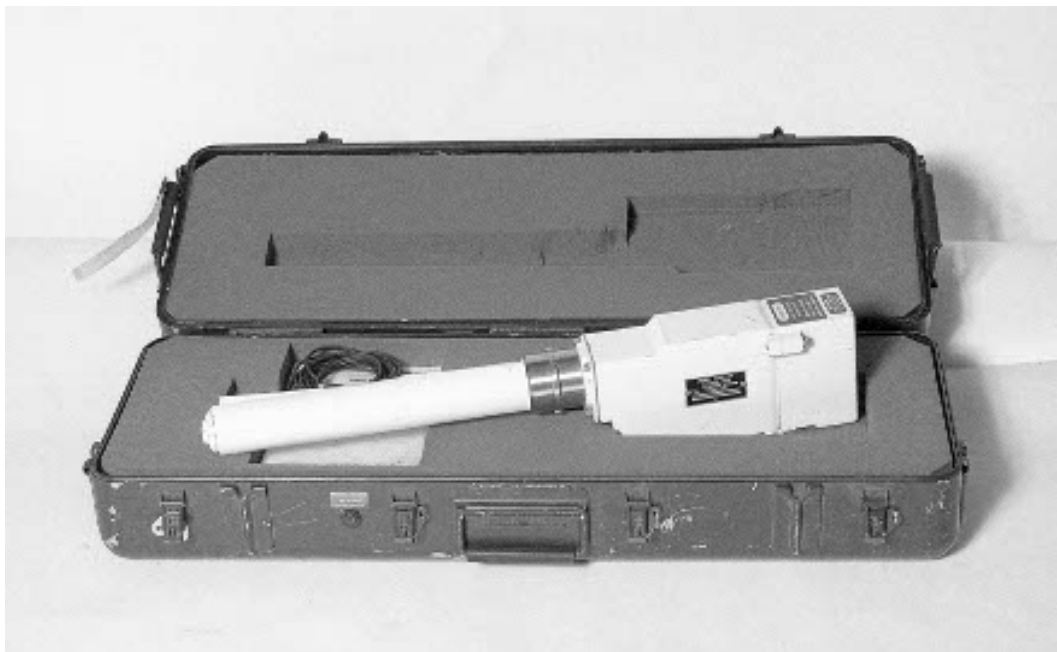
- **DEVICE**
- **GTAs**
- **VIDEOTAPES**



<http://pao.hood.army.mil/TSC>

# **LASER TANK GUNNERY TRAINER**

**DVC 17-56  
M55**



**TRAINING CATEGORY/LEVEL UTILIZED:**  
**Armor/Level 1**

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
**None**

**SOURCE AND METHOD OF OBTAINING:**  
**Not generally available for issue  
(limited production).**

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
**None**

**PURPOSE OF TRAINER:**  
**For use on the target range to train  
crewmembers of M48, M60 and M1A1 Series  
Tanks, the M2/3 BFV, and the M551  
Armored Reconnaissance/Airborne  
Assault Vehicle in gunnery procedures.**

**POWER REQUIREMENTS:**  
**24 V DC**

**PHYSICAL INFORMATION:**  
**12" x 29" x 35"; 36 lbs.**

**PUBLICATIONS:**  
**TM 9-6920-357-10**

## **MOUNT, SUBCALIBER 5.56MM (BREWSTER DEVICE)**

**DVC 17-59/1 M180 (M48/60 Series Tank)**



**TRAINING CATEGORY/LEVEL UTILIZED:**  
Armor/Level 3

**SOURCE AND METHOD OF OBTAINING:**  
Available through local TSC

**PURPOSE OF TRAINER:**  
This is a mounting device, which permits use of the M16 Rifle or M55 Laser for subcaliber firing at reduced range.

**PHYSICAL INFORMATION:**  
M60/48 Series: 32" x 21" x 10"  
M60A2: 32" x 10" x 8"  
M551: 32" x 6" x 8"2

**EQUIPMENT REQUIRED, NOT SUPPLIED:**  
M55 Laser (DVC 17-56) or  
M16A1 Rifle with Rimfire  
Adapter (DVC 07-55)

**SPECIAL INSTALLATION REQUIREMENTS:**  
None

**POWER REQUIREMENTS:**  
24 V DC vehicle voltage

**PUBLICATIONS:**  
TM 9-6920-441-12 & P

## **MOUNT, MACHINEGUN: .50 CALIBER TRAINING DEVICE (TELFARE)**

**DVC 17-60**



**TRAINING CATEGORY/LEVEL UTILIZED:**  
**Armor/Level 1**

**SOURCE AND METHOD OF OBTAINING:**  
**Available through local TSC**

**PURPOSE OF TRAINER:**  
**A mounting device which permits substitution of the M2 .50 Caliber Machinegun for the M60 and M1A1 Series Tanks Main Gun and the SHILLELAGH 152mm Gun/Launcher.**

**PHYSICAL INFORMATION:**  
**20" x 17" x 12"; 74 lbs.**

**EQUIPMENT REQUIRED, NOT SUPPLIED:**  
**M2 Heavy Barrel Machine gun.**

**SPECIAL INSTALLATION REQUIREMENTS:**  
**None**

**POWER REQUIREMENTS:**  
**24 V DC vehicle voltage**

**PUBLICATIONS:**  
**TM 9-6920-374- 12 & P**

## **SIMULATOR, TANK GUNFIRE**

**DVC 17-61 (HOFFMAN)  
17-157 (WESS)**



**TRAINING CATEGORY/LEVEL UTILIZED:**  
**Armor/Level 3**

**SOURCE AND METHOD OF OBTAINING:**  
**Available through local TSC**

**PURPOSE OF TRAINER:**  
**The trainer was specifically designed for simulating, audibly and visibly, firing of a gun tank/antitank) in training operations.**

**PHYSICAL INFORMATION:**  
**Simulator body: 12" x 18" x 12"; 77 lbs.**  
**Clamp assembly: 13 lbs.**  
**Firing device: 9" x 6" x 3"; 6 lbs.**  
**Transport and storage container: 34"x 22" x 15"; 95 lbs.**

**EQUIPMENT REQUIRED, NOT SUPPLIED:**

**Simulator, Flash, Artillery, M21; NSN 1370-01-034-1397**

**SPECIAL INSTALLATION REQUIREMENTS:**

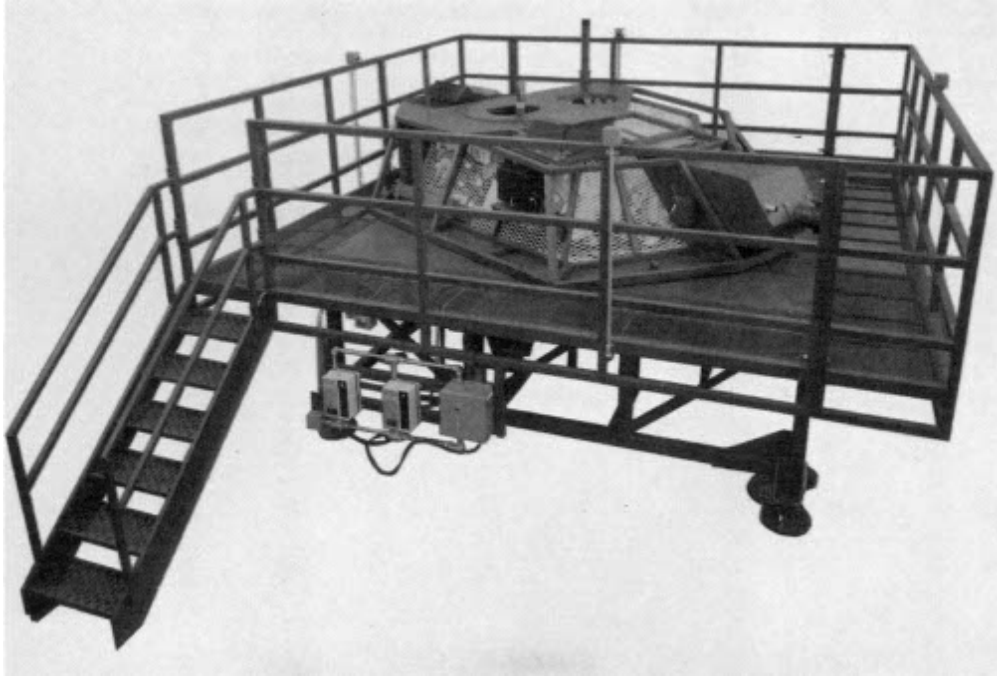
**Instructions for handling Simulator, Flash, Artillery: M21, and safety warning notices as published in Technical Manual for Simulator, Tank Gunfire Device 17-61 should be adhered to.**

**POWER REQUIREMENTS:**  
**24V DC**

**PUBLICATIONS:**  
**Commercial Publications**

# **M1A1 TANK TURRET ORGANIZATIONAL MAINTENANCE TRAINER (TTOMT)**

**DVC 17-67A**



**TRAINING CATEGORY/LEVEL UTILIZED:**  
Armor/Level 1

**EQUIPMENT REQUIRED,  
NOT SUPPLIED**  
None

**SOURCE AND METHOD OF OBTAINING:**  
Not generally available for issue  
(limited production).

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
Should have dedicated  
power line and be  
located in a dust-free  
atmosphere. Installation  
area is 21 ft. wide by 10  
ft high.

**PURPOSE OF TRAINER:**  
Device was developed to aid in teaching  
organizational troubleshooting  
procedures for turret subsystems.

**POWER  
REQUIREMENTS:**  
Standard three wire, 120  
V AC, (110 V to 125 V)  
30-ampere outlet.

**PHYSICAL INFORMATION:**  
TTOMT: 248" X 186" X 108"  
Weight: 15,000 lbs.  
Panels: All 123" X 28" X 75"  
Weight: 600 lbs.

**PUBLICATIONS:**  
TM 9-6910-242-10&-24&P

## **M1 (ABRAMS) TANK MAINTENANCE TRAINERS**

**DVC 17-68/1 M1 Turret Organizational Maintenance Troubleshooting Trainer**

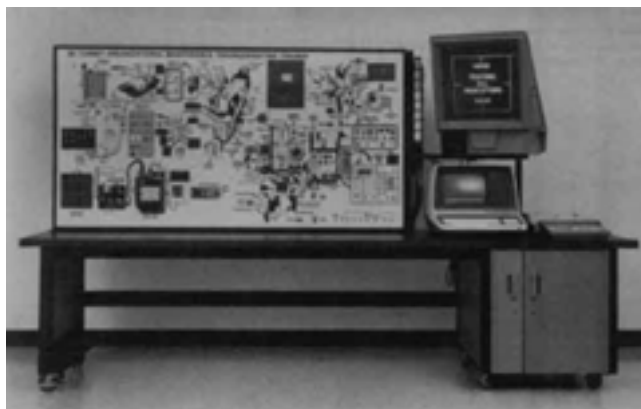
**DVC 17-68/2 M1 Turret Electrical and Hydraulic Troubleshooting Trainer**

**DVC 17-68/3 M1 Ballistic Computer and Laser Rangefinder Troubleshooting Trainer**

**DVC 17-68/4 M1 Hull Electrical Troubleshooting Trainer**

**DVC 17-68/5 M1 AGT 1500 Turbine Engine Troubleshooting Trainer**

**DVC 17-68/6 M1 X100-3B Transmission Troubleshooting Trainer**



### **TRAINING CATEGORY/LEVEL UTILIZED:**

**Armor/Level 1**

### **EQUIPMENT REQUIRED, NOT SUPPLIED:**

**None**

### **SOURCE AND METHOD OF OBTAINING:**

**Not generally available for issue  
(limited production).**

### **SPECIAL INSTALLATION REQUIREMENTS:**

**Minimum access to  
installation area for  
TTOMT is 21 ft. width by  
10 ft height Floor must  
support 17,000 lb. load.**

### **PURPOSE OF TRAINER:**

**These devices train the organizational  
and DS/GS mechanics in  
troubleshooting techniques, removal,  
replacement and repair of the Abrams  
Tank System/components.**

### **POWER REQUIREMENTS:**

**110 V AC, 15A, 50/60  
cycle, single-phase**

### **PHYSICAL INFORMATION:**

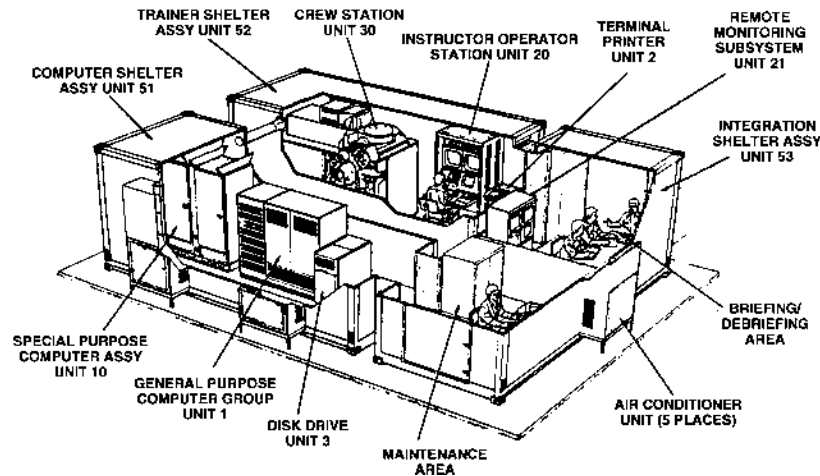
**Panels: ALL - 123" x 28" x 75";  
Weight - Approx. 600 lbs.**

### **PUBLICATIONS:**

**TM 9-6910-243-10 & P  
TM 9-6910-244-10 & P  
TM 9-6910-245-10 & P  
TM 9-6910-246-10 & P  
TM 9-6910-247-10 & P  
TM 9-6910-248-10 & P**

# BRADLEY FIGHTING VEHICLE UNIT CONDUCT OF FIRE TRAINER (M2/M3 UCFT)

DVC 17-74  
DVC 17-74A  
DVC 17-127



## TRAINING CATEGORY/LEVEL UTILIZED:

Armor (M3)/ Infantry (M2)/  
Armor/Level 1

## EQUIPMENT REQUIRED, NOT SUPPLIED:

None

## SOURCE AND METHOD OF OBTAINING:

Not generally available for issue  
(limited production).

## SPECIAL INSTALLATION REQUIREMENTS:

UCFT is installed in  
three basic mobile facility  
shelters connected to  
form a complex.

## PURPOSE OF TRAINER:

To train the Gunner and Track  
Commander on the Bradley Fighting  
Vehicle M2/M3 in organizational  
procedures, target acquisition, reticle  
aim target engagement and system  
management.

## POWER REQUIREMENTS:

120/208 V AC, 3-phase.  
50/60 Hz, 4-wire maximum  
peak power is 125 KVA,  
including 20

## PHYSICAL INFORMATION:

Computer Shelter: 238.5" x 96" x 96";  
Weight: 9,000 lbs.  
Integration Shelter 238.5 x 96" x 96";  
Weight: 12,000 lbs.  
Trainer Shelter: 238.5" x 96" x 96";  
Weight: 7,000 lbs.



## **STOUT DEVICE (TANK LASER TARGET DEVICE)**

**DVC-D 17-94**



**TRAINING CATEGORY/LEVEL UTILIZED:**  
Armor/Level 3

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
M55 Laser Trainer

**SOURCE AND METHOD OF OBTAINING:**  
Available through local TSC

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
None

**PURPOSE OF TRAINER:**  
The device is excellent for practicing range card type engagements, and can be used on gunnery ranges, in garrison, or during field exercises.

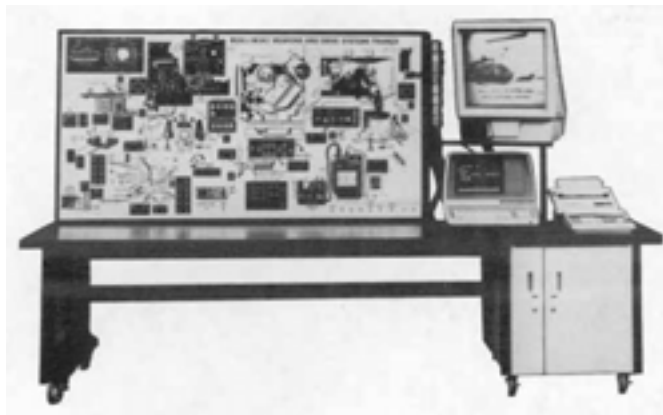
**POWER REQUIREMENTS:**  
None

**PHYSICAL INFORMATION:**  
A data target device used with the M55 Laser to simulate main gun fire.

**PUBLICATIONS:**  
None

## **M2A1/M3A1 BRADLEY FIGHTING VEHICLE TRAINER SYSTEMS**

- DVC 17-132/1 M2A1/M3A1 BFV ORGANIZATIONAL MAINTENANCE  
FOR WEAPONS AND DRIVE SYSTEMS**
- DVC 17-132/2 M2A1/M3A1 BFV ORGANIZATIONAL MAINTENANCE  
TRAINER FOR TOW MISSILE AND ISU SYSTEMS**
- DVC 17-132/3 M2A1/M3A1 BFV TURRET DIRECT SUPPORT MAINTENANCE  
TRAINER: (TCB, TDB, VDB, WCB)**
- DVC 17-132/4 M2A1/M3A1 BFV TURRET DIRECT SUPPORT MAINTENANCE  
TRAINER: (ECA, GHS, RYA, TWB)**
- DVC 17-132/5 M2A1/M3A1 BFV TOW-2 SUBSYSTEM SUPPORT EQUIPMENT  
(T2SS-SE) TRAINER**



**TRAINING CATEGORY/LEVEL UTILIZED:**  
**Armor/Level 1**

**EQUIPMENT REQUIRED  
NOT SUPPLIED:**  
**None**

**SOURCE AND METHOD OF OBTAINING:**  
**Not generally available for issue  
(limited production).**

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
**Minimum classroom  
ceiling height 8'.**

**PURPOSE OF TRAINER:**  
**These devices simulate normal and  
malfunction operating conditions associated  
with the operational M2A1/M3A1 vehicles.  
Trains operational, troubleshooting, repair  
and alignment skills required for proper  
maintenance on the vehicle.**

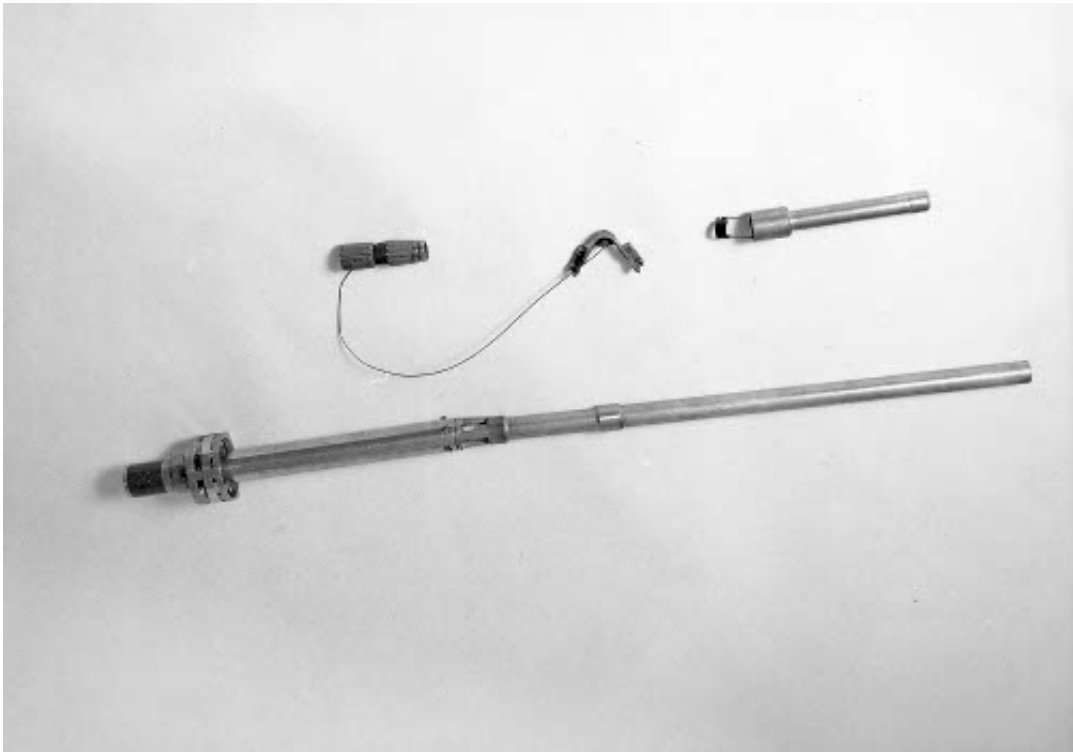
**POWER REQUIREMENTS:**  
**115 V AC, 60Hz, 15 A,  
single phase. 220 V AC,  
50 Hz, 8 A, single-phase.**

**PHYSICAL INFORMATION:**  
**120"L x 29"W x 71"H; Weight: 485 lbs.**

**PUBLICATIONS:**  
**TM 9-6910-237-10  
TM 9-6910-238-10  
TM 9-6910-239-10  
TM 9-6910-241-10  
TM 9-6910-701-10**

## **M21 BLANK FIRING ATTACHMENT**

**DVC 17-134**



**TRAINING CATEGORY/LEVEL UTILIZED:**  
Armor/Level 3

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
None

**SOURCE AND METHOD OF OBTAINING:**  
Available through local TSC

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
None

**PURPOSE OF TRAINER:**  
The M21 Blank firing attachment permits the firing of linked blank 7.62mm ammunition in the M240 Machine Gun.

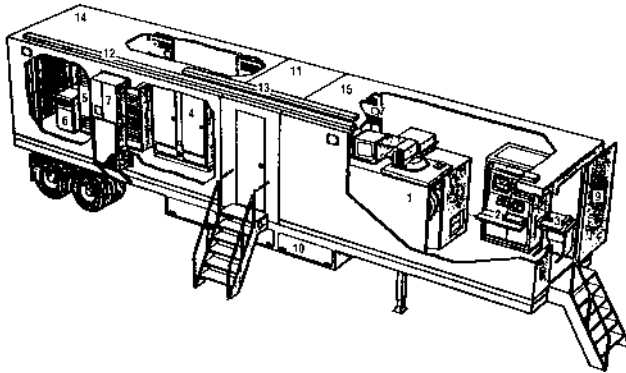
**POWER  
REQUIREMENTS:**  
None

**PHYSICAL INFORMATION:**  
Weight: Approximately 3 lbs.  
(Each component)

**PUBLICATIONS:**  
TM 9-1005-316-12& P

## **M60A3/M1 TANK MOBILE CONDUCT OF FIRE TRAINER (MCOFT)**

**DVC 17-138 (M60A3/M1)**



1. - CREW STATION
2. - INSTRUCTION OPERATOR  
STATION 105
3. - PRINTER
4. - SPECIFIC PURPOSE COMPUTER
5. - GENERAL PURPOSE COMPUTER
6. - DISK
7. - AIR-CONDITIONER
8. - TRAINING ENTRANCE
9. - EMERGENCY EXIT
10. - STORAGE
11. - WALKWAY
12. - ENTER SHELTER POWER CABLE DUCTS
13. - INTER SHELTER SIGNAL CABLE DUCTS
14. - COMPUTER SHELTER
15. - TRAINER SHELTER

**TRAINING CATEGORY/LEVEL UTILIZED:**  
**Armor/Level 1**

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
**None**

**SOURCE AND METHOD OF OBTAINING:**  
**Not generally available for issue  
(limited production)**

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
**Installed in two basic  
mobile facility shelters  
mounted on a 45 ft. air-  
ride trailer. A 30' X 60'  
concrete pad is required  
with electrical and  
telephone lines.**

**PURPOSE OF TRAINER:**  
**To train the gunner and tank  
commander on Abrams M1 and  
M60A3 tanks in organizational  
procedures, target acquisition, reticle  
aim, target engagement and system  
management.**

**POWER  
REQUIREMENTS:**  
**120/208 V AC, 60 Hz,  
3-phase, 4-wire**

**PHYSICAL INFORMATION:**  
**45' L x 8' W x 13'6" H;  
weight approx. 2,000 lbs.**

**PUBLICATIONS:**  
**TM 9-6920-744-10  
TM 9-6920-760-10  
TM 9-6920-744-15  
TM 9-744-23-100  
TM 9-6920-23-109**

## **THRU-SIGHT VIDEO (TSV SYSTEM)**

**DVC 17-143**



**TRAINING CATEGORY/LEVEL UTILIZED:**  
**Armor/Level 1**

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
**None**

**SOURCE AND METHOD OF OBTAINING:**  
**Available at local TSC**

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
**As described in  
TD 9-6920-708-10**

**PURPOSE OF TRAINER:**  
**The TSV is a vehicle-appended system  
that provides video and audio  
recording of gunnery or tactical  
engagement exercises in real-time.**

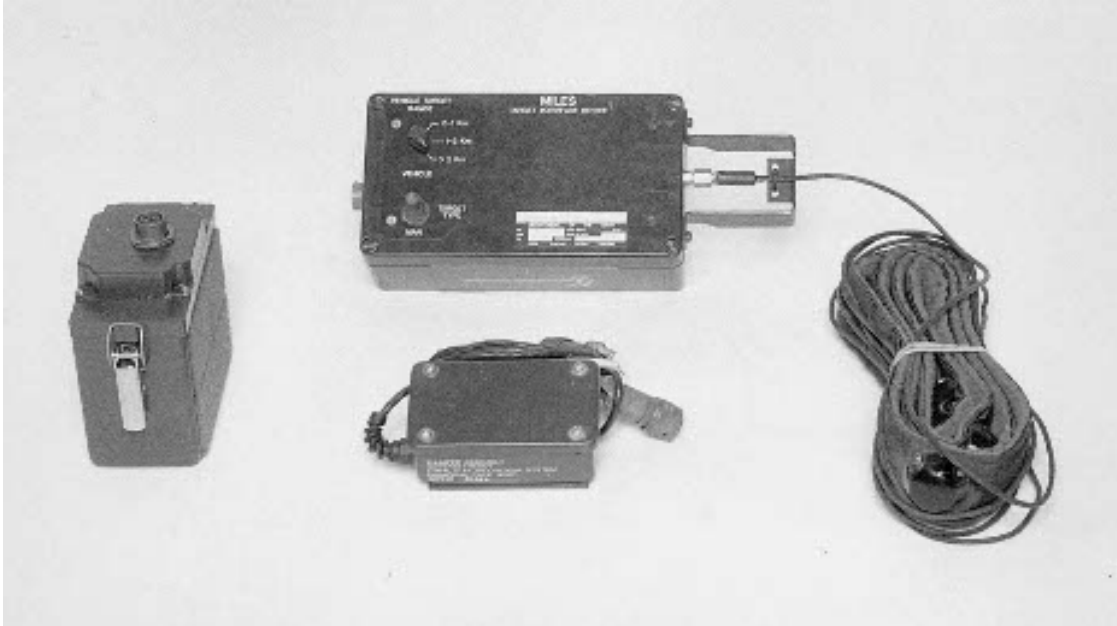
**POWER REQUIREMENTS**  
**None**

**PHYSICAL INFORMATION:**  
**System consists of three transit cases.**  
**Case #1: 29.75 x 29.75 x 29.25"**  
**Case #2: 29.75 x 29.75 x 31"**  
**Case #3: 29.75 x 29.75 x 29.25"**

**PUBLICATIONS:**  
**TM 9-6920-708-10**

# **LASER TARGET INTERFACE DEVICE**

**DVC 17-146**



**TRAINING CATEGORY/LEVEL UTILIZED:**  
Combat Arms/Level 3

**SOURCE AND METHOD OF OBTAINING:**  
Available at TSC

**PURPOSE OF TRAINER:**  
Causes the target mechanism to fall down upon receipt of the appropriate laser hit/kill code.

**PHYSICAL INFORMATION:**  
2 Transit Cases Weight: 7 lbs. Each  
and are 11" x 4" x 7"

**EQUIPMENT REQUIRED, NOT SUPPLIED:**  
Battery BA 200  
(6V lantern)

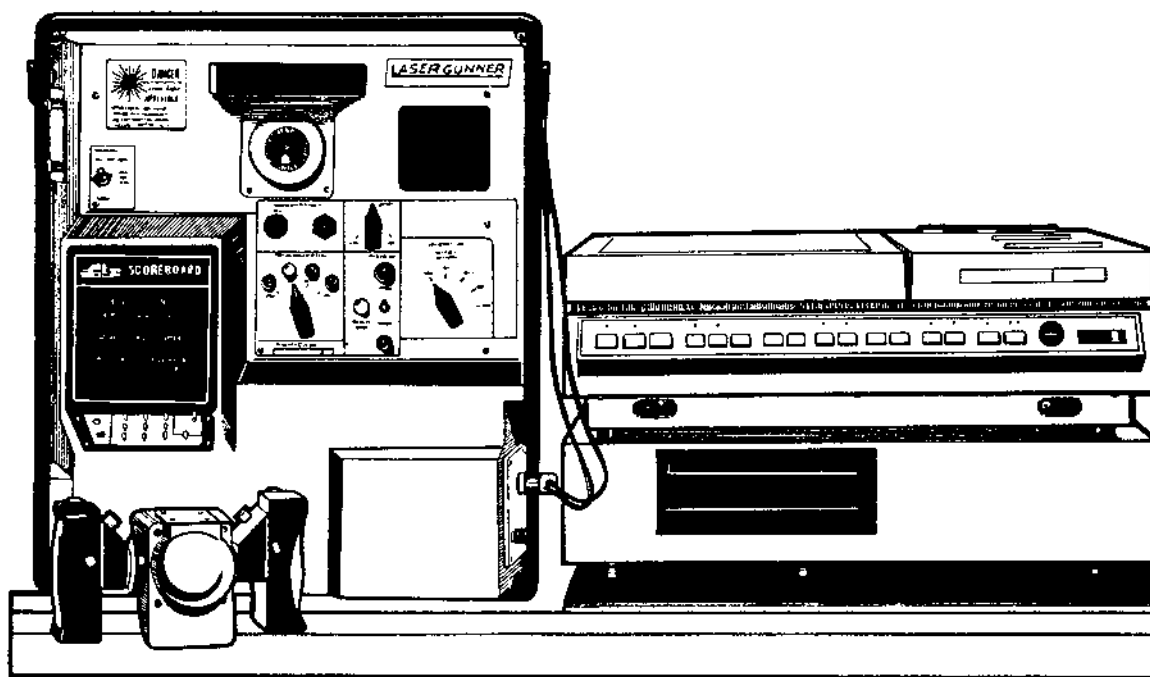
**SPECIAL INSTALLATION REQUIREMENTS:**  
None

**POWER REQUIREMENTS:**  
12 V DC

**PUBLICATIONS:**  
TM 9-1265-376-10

## VIDEO DISC GUNNERY SYSTEM (VIGS)

DVC 17-150 NSN: 6920-01-242-1689



**TRAINING CATEGORY/LEVEL UTILIZED:**  
Combat Arms/Level 3

**SOURCE AND METHOD OF OBTAINING:**  
Available at local TSC

**PURPOSE OF TRAINER:**  
Portable electronic training device designed to provide soldiers with realistic and effective target engagement skills training.

**PHYSICAL INFORMATION:**  
Gunner's console - 27"H x 31"D x 23"W;  
Weight: 140 lbs.  
Videodisc Player -  
4 3/4"H x 16 3/8"D x 17 1/8"W;  
Weight: 27.5 lbs.

**EQUIPMENT REQUIRED, NOT SUPPLIED:**  
Combat Vehicle  
Crewman Helmet, 3kw  
Generator

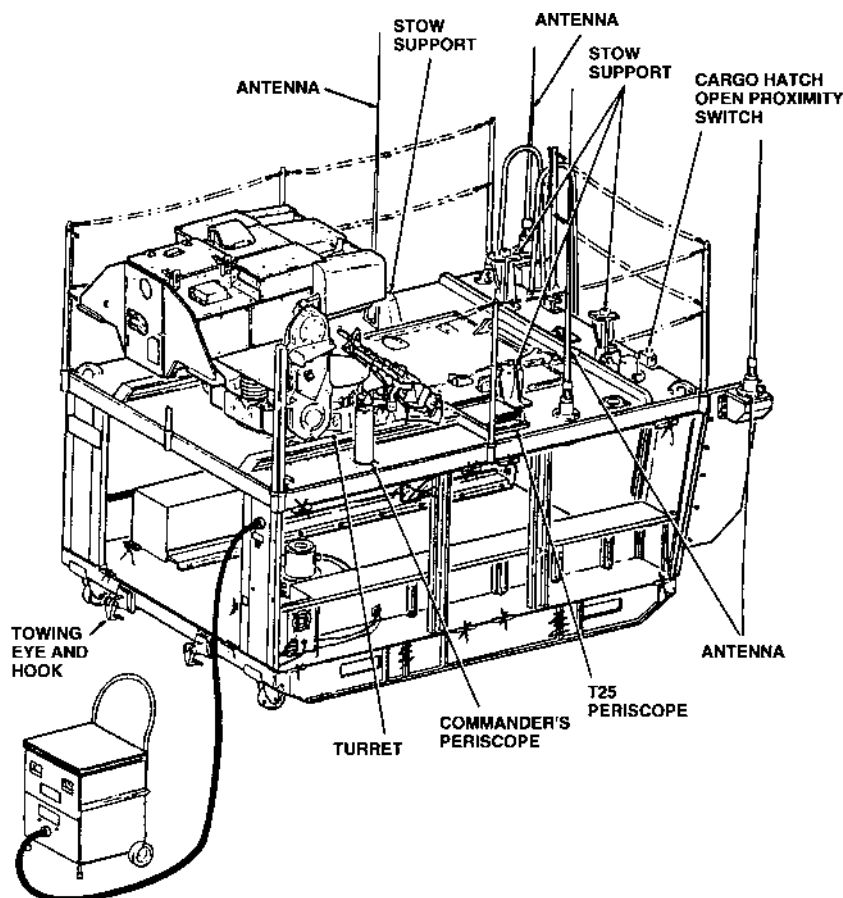
**SPECIAL INSTALLATION REQUIREMENTS:**  
Must be installed in climate controlled classroom.

**POWER REQUIREMENTS:**  
110 V AC, 60 Hz  
220 V AC, 50 Hz

**PUBLICATIONS:**  
TM 9-2350-215-10

# TRAINER, WEAPON STATION, ITV M90A1

DVC 17-165



**TRAINING CATEGORY/LEVEL UTILIZED:**  
Armor/Level 1

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
None

**SOURCE AND METHOD OF OBTAINING:**  
Not generally available for issue  
(limited production).

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
Not available.

**PURPOSE OF TRAINER:**  
To provide a training environment  
for operation and maintenance of  
the M90A1 Weapon Station.

**POWER  
REQUIREMENTS:**  
Not available.

**PHYSICAL INFORMATION:**  
Not available.

**PUBLICATIONS:**  
Manufacturer's Manual



## BOARD, TANK TIMING

DVC T 17-021



**TRAINING CATEGORY/LEVEL UTILIZED:**  
Armor/Level 3

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
None

**SOURCE AND METHOD OF OBTAINING:**  
Available at local TSC

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
None

**PURPOSE OF TRAINER:**  
Used to time tank gunnery  
qualification table

**POWER REQUIREMENTS:**  
1.5 V DC Battery

**PHYSICAL INFORMATION**  
A wooden case containing 8  
stopwatches.  
Case measures 14" x 10" x 2 1/4"

**PUBLICATIONS:**  
None

## **ARMOR VEHICLE MODELS (1/10TH SCALE)**

**DVC-T 17-81**

**DVC-T 17-82**

**DVC-T 17-83**

**DVC-T 17-84**



**TRAINING CATEGORY/LEVEL UTILIZED:**

**Armor/Level 3**

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**

**None**

**SOURCE AND METHOD OF OBTAINING:**

**Available through local TSC until  
current supplies are exhausted.**

**SPECIAL INSTALLATION  
REQUIREMENTS:**

**None**

**PURPOSE OF TRAINER:**

**These models may be used as targets  
or for classroom or outdoor  
recognition training.**

**POWER REQUIREMENTS:**

**None**

**PUBLICATIONS:**

**None**

**PHYSICAL INFORMATION:**

**Solid, three-dimensional, 1/30<sup>th</sup>  
scale model vehicles made of  
spongy plastic.**

## **ARMOR VEHICLE MODELS (1/35TH SCALE)**

**DVC-T 17-102**



**TRAINING CATEGORY/LEVEL UTILIZED:**  
**Armor/Level 3**

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
**None**

**SOURCE AND METHOD OF OBTAINING:**  
**Available through local TSC**

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
**None**

**PURPOSE OF TRAINER:**  
**These models may be used for  
classroom or outdoor instruction in  
the recognition of armored vehicles.**

**POWER REQUIREMENTS:**  
**None**

**PHYSICAL INFORMATION:**  
**Solid hard plastic, three  
dimensional, 1/35th scale models of  
American and foreign nation  
armored vehicles.**

**PUBLICATIONS:**  
**None**

## **120MM TRAINING ROUND (HEAT/SABOT) MPAT**

**DVC T 17-107 SABOT**

**DVC T 17-108 HEAT**

**DVC T 17-111 MPAT**



**TRAINING CATEGORY/LEVEL UTILIZED:**

**Armor/Level 3**

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**

**None**

**SOURCE AND METHOD OF OBTAINING:**

**Available at local TSC**

**SPECIAL INSTALLATION  
REQUIREMENTS:**

**None**

**PURPOSE OF TRAINER:**

**Provides the loader with training in  
ammunition identification, handling  
and chambering experience, safety  
practices and damage avoid ability.**

**POWER REQUIREMENTS:**

**None**

**PHYSICAL INFORMATION:**

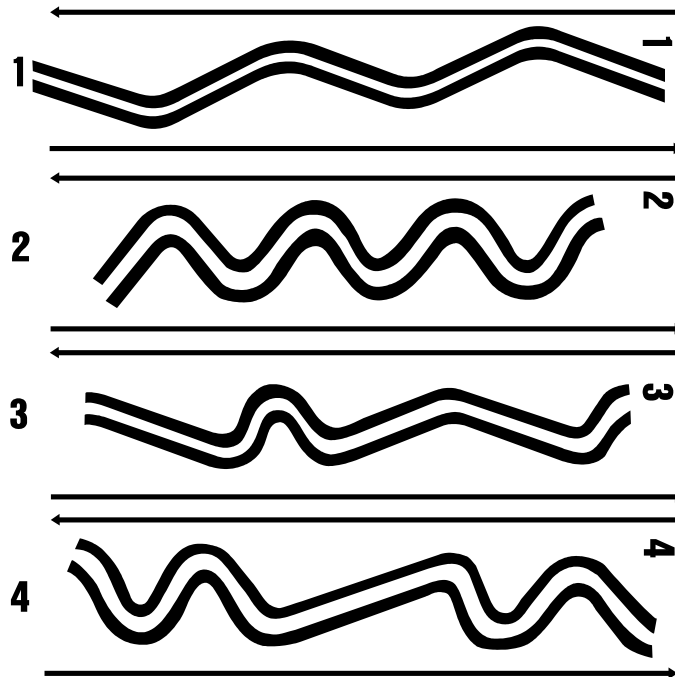
**A replica of the actual service round.**

**PUBLICATIONS:**

**None**

## SNAKE BOARDS (WITHOUT TEXT)

FHTD 17-004A WOOD  
FHTD 17-004B PLASTIC  
FHTD 17-004C CANVAS



**TRAINING CATEGORY/LEVEL UTILIZED:**  
Armor/Level 3

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
None

**SOURCE AND METHOD OF OBTAINING:**  
Available at local TSC

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
None

**PURPOSE OF TRAINER:**  
Used to train gunners on the gun  
controls.

**POWER REQUIREMENTS:**  
None

**PHYSICAL INFORMATION:**  
Wood - 6' X 6' Frame covered  
w/1/2" MDO BD.  
Plastic - 6' X 6' Wood frame  
covered w/white plastic.  
Canvas - 6' X 6' Canvas w/4  
Grommets.

**PUBLICATIONS:**  
None

## WARSAW PACT THERMAL TARGETS (1/20TH SCALE)

FHTD 17-009



**TRAINING CATEGORY/LEVEL UTILIZED:**  
Armor/Level 3

**SOURCE AND METHOD OF OBTAINING:**  
Available at local TSC

**PURPOSE OF TRAINER:**  
Used as an aid for verifying tank thermal sights.

**PHYSICAL INFORMATION:**  
Aluminum Construction  
Scale 1:20 (Approx.)  
Kit Contains 15 items  
Carrying Case 31' x 34"x 8"  
Weight: 67 lbs.

**EQUIPMENT REQUIRED, NOT SUPPLIED:**  
Heat Source... Candle, Charcoal, etc

**SPECIAL INSTALLATION REQUIREMENTS:**  
None

**POWER REQUIREMENTS:**  
None

**PUBLICATIONS:**  
None

## BORESIGHT & ZERO TARGET PANEL, CANVAS

FHTD 17-011



**TRAINING CATEGORY/LEVEL UTILIZED:**  
Armor/Level 3

**SOURCE AND METHOD OF OBTAINING:**  
Available at local TSC

**PURPOSE OF TRAINER:**  
Used as an aid for boresighting.

**PHYSICAL INFORMATION:**  
4' x 6' Canvas with 4 grommets

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
None

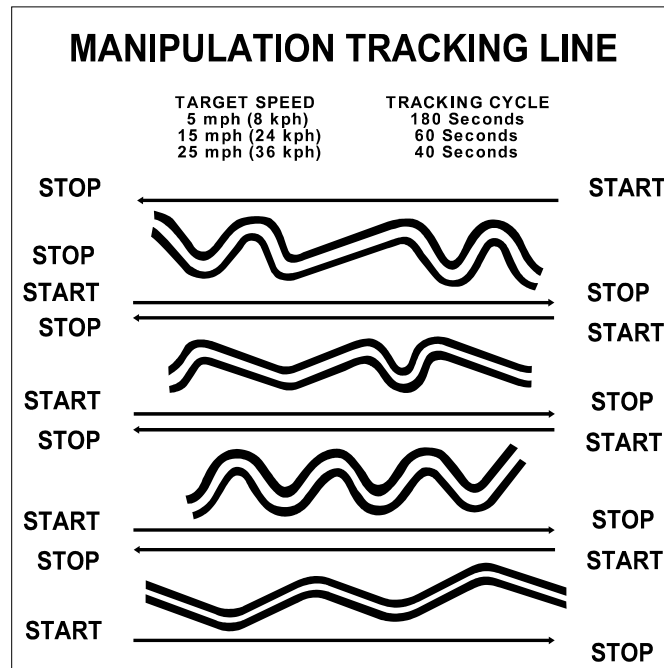
**SPECIAL INSTALLATION  
REQUIREMENTS:**  
None

**POWER REQUIREMENTS:**  
None

**PUBLICATIONS:**  
None

## **SNAKE BOARDS (WITH TEXT)**

**FHTD 17-014A WOOD  
FHTD 17-014B PLASTIC  
FHTD 17-014C CANVAS**



**TRAINING CATEGORY/LEVEL UTILIZED:**  
**Armor/Level 3**

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
**None**

**SOURCE AND METHOD OF OBTAINING:**  
**Available at local TSC**

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
**None**

**PURPOSE OF TRAINER:**  
**Used to train gunners on the gun  
controls.**

**POWER REQUIREMENTS:**  
**None**

**PHYSICAL INFORMATION:**  
**Wood - 6' X 6' Frame covered  
w/1/2" MDO BD.**  
**Plastic - 6' X 6' Wood frame  
covered w/white plastic.**  
**Canvas - 6' X 6' Canvas w/4  
Grommets.**

**PUBLICATIONS:**  
**None**

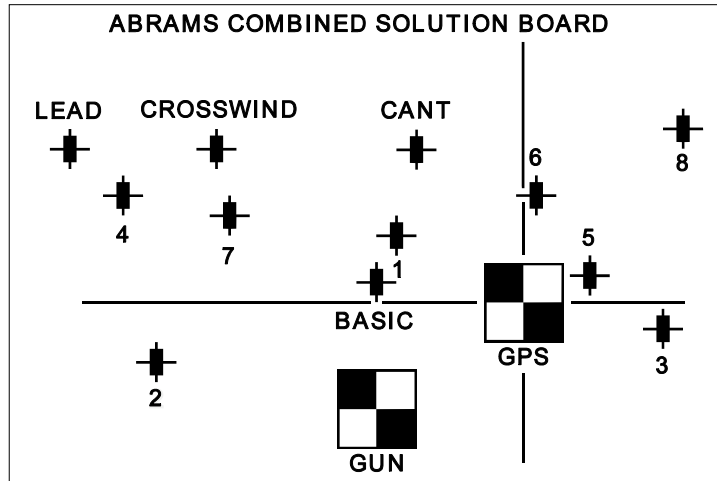


## ABRAMS COMBINED SOLUTION BOARD

FHTD 17-016A WOOD

FHTD 17-016B PLASTIC

FHTD 17-018 CANVAS



### TRAINING CATEGORY/LEVEL UTILIZED:

Armor/Level 3

### EQUIPMENT REQUIRED, NOT SUPPLIED:

None

### SOURCE AND METHOD OF OBTAINING:

Available at local TSC

### PURPOSE OF TRAINER:

Used to test the ability of the CEU to compensate for the values received from the fire control system components and determine a ballistic solution for a given round. The ballistic solution check verifies that the fire control system is correctly implementing ballistic solutions in all main gun channels.

### SPECIAL INSTALLATION REQUIREMENTS:

None

### POWER REQUIREMENTS:

None

### PHYSICAL INFORMATION:

Wood - 6' X 9', 1/2" Plywood,  
Painted white.

Plastic - 6' X 9' Wood frame  
covered w/white plastic.

Canvas - 6' X 9' Canvas  
w/Grommets.

### PUBLICATIONS:

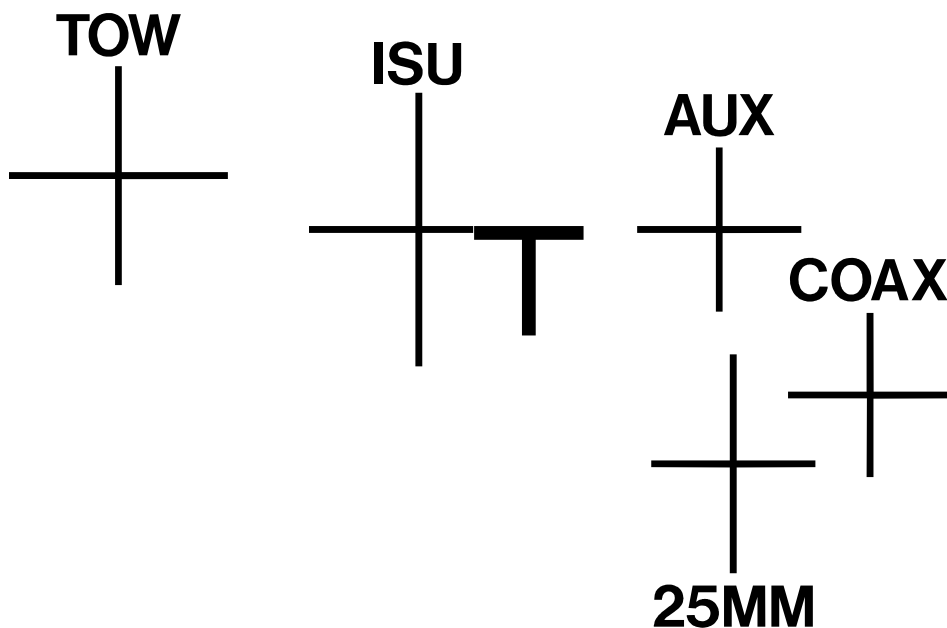
TM 9-2350-255-10-2

Appendix F

FM 17-12-1-1

## CLOSE-IN BORESIGHT PANEL

FHTD 17-019



FHTD 17-019

**TRAINING CATEGORY/LEVEL UTILIZED:**  
Armor/Level 3

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
None

**SOURCE AND METHOD OF OBTAINING:**  
Available at local TSC

**PURPOSE OF TRAINER:**  
Used to boresight the BFV turret weapon in a restricted or confined area. Allows the BFV crew to identify weapon system errors that decrease firing accuracy, and to become more familiar with the weapon.

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
None

**POWER REQUIREMENTS:**  
None

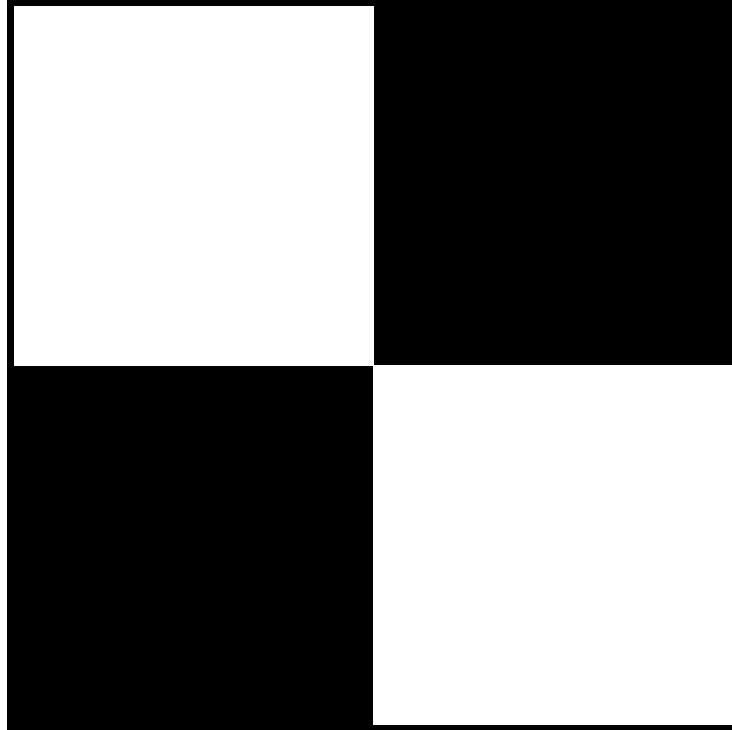
**PHYSICAL INFORMATION:**  
Wood - 4' X 8' Wood Frame, ½"  
Plywood Covering Painted White.

**PUBLICATIONS:**  
None

## **BORESIGHT PANEL**

**FHTD 17-020 WOOD**

**FHTD 17-021A CANVAS**



**TRAINING CATEGORY/LEVEL UTILIZED:**

**Armor/Level 3**

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**

**None**

**SOURCE AND METHOD OF OBTAINING:**

**Available at local TSC**

**SPECIAL INSTALLATION  
REQUIREMENTS:**

**None**

**PURPOSE OF TRAINER:**

**Used to conduct a collimation check  
and determine if the MBD must be  
collimated.**

**POWER REQUIREMENTS:**

**None**

**PHYSICAL INFORMATION:**

**Wood - 6' X 6' Wood Frame, ½"  
Plywood Covering Painted White.**

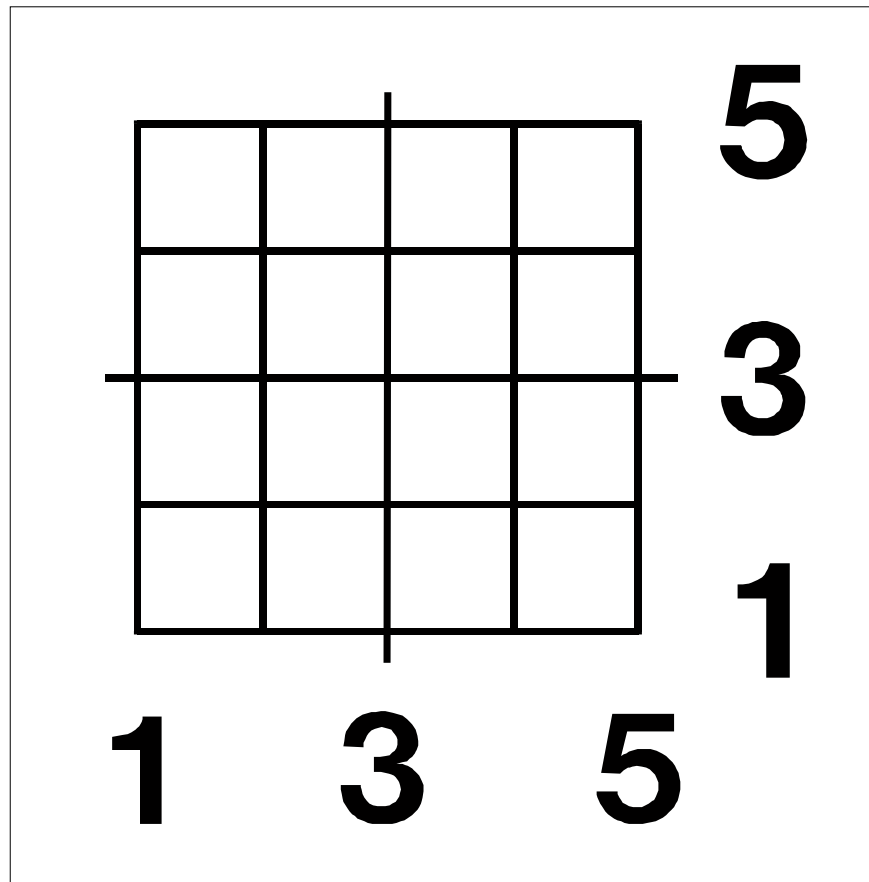
**Canvas - 6' X 6' Canvas,  
w/Grommets in Corners.**

**PUBLICATIONS:**

**FM 17-12-1-1**

## BORESIGHT TEST PANEL

FHTD 17-021B



**TRAINING CATEGORY/LEVEL UTILIZED:**  
Armor/Level 3

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
None

**SOURCE AND METHOD OF OBTAINING:**  
Available at local TSC

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
None

**PURPOSE OF TRAINER:**  
Used for boresight training.

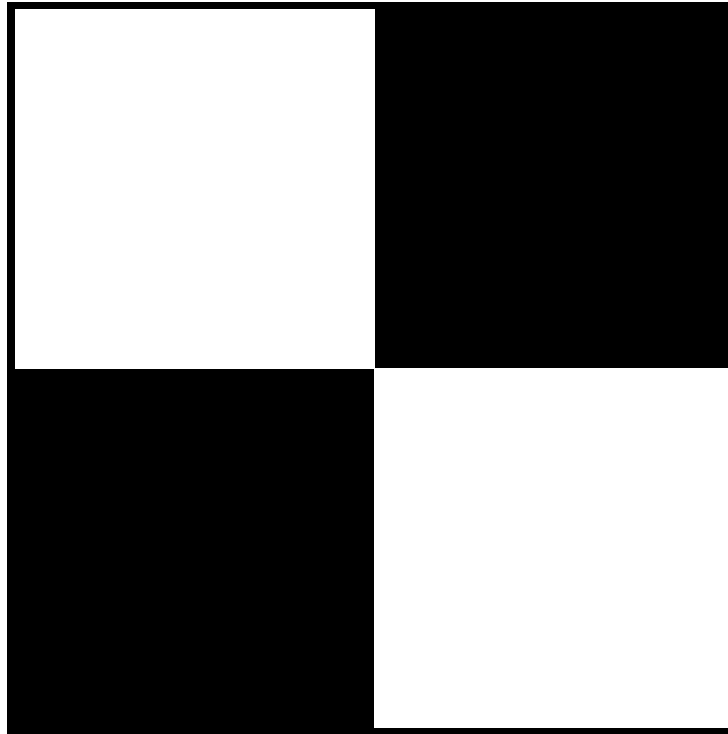
**POWER REQUIREMENTS:**  
None

**PHYSICAL INFORMATION:**  
Wood – 14” X 14” Wood Frame,  
¾” Plywood Covering Painted  
White.

**PUBLICATIONS:**  
None

## **BORESIGHT PANEL PORTABLE**

**FHTD 17-024**



**TRAINING CATEGORY/LEVEL UTILIZED:**  
Armor/Level 3

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
None

**SOURCE AND METHOD OF OBTAINING:**  
Available at local TSC

**PURPOSE OF TRAINER:**  
Used to conduct a collimation check  
and determine if the MBD must be  
collimated.

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
None

**PHYSICAL INFORMATION:**  
Wood - 6' X 6' Wood Frame,  $\frac{3}{4}$ "  
Plywood, Painted White, Hinged  
w/Black Squares on Opposite  
Sides. This unit is hinged, foldable  
and therefore portable.

**POWER REQUIREMENTS:**  
None

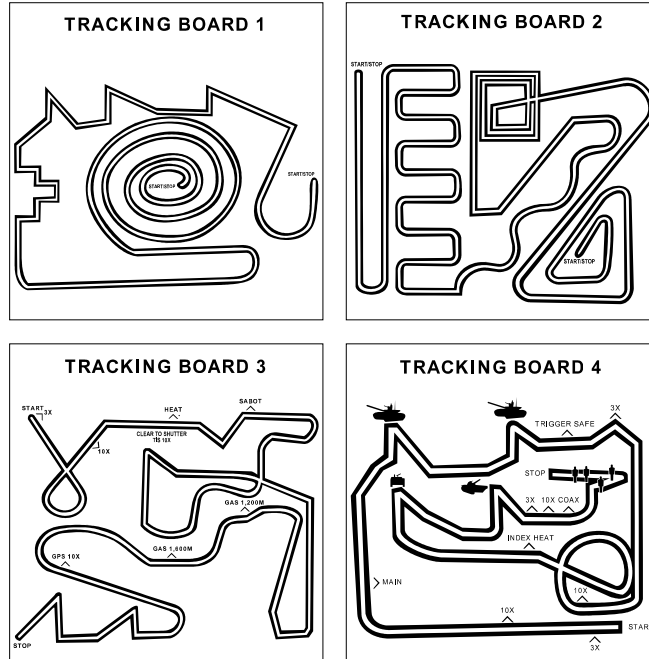
**PUBLICATIONS:**  
FM 17-12-1-1

## TRACKING BOARDS

FHTE 17-024 Plastic

FHTE 17-025 Canvas

FHTE 17-026 Wood



**TRAINING CATEGORY/LEVEL UTILIZED:**

Armor/Level 3

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**

None

**SOURCE AND METHOD OF OBTAINING:**

Available at local TSC

**PURPOSE OF TRAINER:**

Used to as an effective tool in training hand-and-eye coordination, turret control, speed and accuracy. Consists of 4 separate panels.

**SPECIAL INSTALLATION  
REQUIREMENTS:**

None

**POWER REQUIREMENTS:**

None

**PHYSICAL INFORMATION:**

Plastic – 6' X 6' Wood frame covered w/white plastic.

Canvas – 6' X 6' Canvas w/4 Grommets.

Wood - 6' X 6' Frame covered w/1/2" MDO BD.

**PUBLICATIONS:**

FM 17-12-1-2

**Mini Tank Range**

**FHTE 17-028**

**Overall view of the completed mini tank range**



©1995 ARMOR-July-August 1995. Reprinted with permission.

**The completed min tank range, as seen through sight to Black Hot**



©1995 ARMOR-July-August 1995. Reprinted with permission.

**TRAINING CATEGORY/LEVEL UTILIZED:**  
**Armor/Level 3**

**EQUIPMENT REQUIRED,  
NOT SUPPLIED:**  
**None**

**SOURCE AND METHOD OF OBTAINING:**  
**Available at local TSC**

**SPECIAL INSTALLATION  
REQUIREMENTS:**  
**None**

**PURPOSE OF TRAINER:**  
**Used to train crews.**

**POWER REQUIREMENTS:**  
**None**

**PHYSICAL INFORMATION:**  
**4'x8' plywood, with No Power**  
**Thermal Target Material on small**  
**target cut outs.**

**PUBLICATIONS:**  
**None**